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Our File No. 9281/4603
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Naoya Hasegawa et al.)
Serial No. To be Assigned)
Filing Date: Herewith)
For MAGNETIC SENSOR WITH SECOND)
ANTIFERROMAGNETIC LAYER HAVING)
SMALLER DEPTH IN HEIGHT)
DIRECTION THAN FREE LAYER AND)
MANUFACTURING METHOD THEREOF)

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Prior to examination of the above-identified application, please amend the application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks begin on page 7 of this paper.